

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1436896	(trench groove aperture recess hole open\$3) with (spac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:06
S2	40609	(trench groove aperture recess hole open\$3) with ((spac\$3) and silicon "Si") and (substrate wafer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:08
S3	19133	S2 and (oxide near10 silicon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:08
S4	4493	S3 and (STI shallow near3 trench)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:08
S5	158	S4 and (pedestal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:23
S6	153	S5 and (((@ad<"20040912") or (@rlad<"20040912"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:24
S7	31	("4319932"   "4338138"   "4682409"   "4799099"   "4839305"   "4927774"   "4960726"   "5008207"   "5017990"   "5101256"   "5117271"   "5162245"   "5175607"   "5194926"   "5213989"   "5298786"   "5488002"   "5523245"   "5525818"   "5557131"   "5773350"   "5925923"   "6020246"   "6265276"   "6365451"   "6465317"   "6534372").PN. OR ("6617220").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/15 19:30

## EAST Search History

S8	7	("5382828"   "5397904"   "6287930"   "6396107"   "6486532"   "6566715").PN. OR ("6864560").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/16 11:45
S9	25	("4101350"   "4504332"   "4531282"   "4641416"   "4829016"   "4830972"   "4849371"   "4851362"   "4900689"   "4927774"   "4974045"   "4988632"   "4997775"   "5017990"   "5026654"   "5118634"   "5177582").PN. OR ("5382828").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/16 11:56
S12	18690	bi near3 polar or BICMOS	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:02
S13	22	S12 and (base near10 ((single mono) near3 (Silicon "Si"))) and (poly near3 (silicon "Si")))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:00
S14	295	S12 and pedestal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:03
S15	40609	(trench groove aperture recess hole open\$3) with ((spac\$3) and silicon "Si") and (substrate wafer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:03
S16	19133	S15 and (oxide near10 silicon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:03
S17	4493	S16 and (STI shallow near3 trench)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:03

## EAST Search History

S18	158	S17 and (pedestal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:03
S19	280	S14 not S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:17
S20	2033	heter\$3 near3 bipolar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:18
S21	30	S20 and ((single mono) near3 (silicon Si)) and (Poly near3 (silicon Si))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:33
S25	5572	(257/E27.015,E27.017,E27.03-E27.032,E27.109,E29.194-E29.225).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/16 12:32
S26	5413	((438/202-208,234-239) or (257/E21.382-E21.385,E21.695-E21.696)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/16 12:33
S27	136	(S25 or S26) and ((single\$1 mono\$1) near3 (silicon Si)) and (Poly near3 (silicon Si))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:41
S28	3878	((257/552-562,E29.033) or (438/235-238)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/16 13:33

## EAST Search History

S30	239	S28 and (Hetero\$1bipolar hetero near2 bipolar HBT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:53
S31	24	S30 and (single mono) and (poly)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:49
S34	10541	(Hetero\$1bipolar hetero near2 bipolar HBT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:53
S35	128	S34 and (base same ((single mono) and poly))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 12:53
S36	4	("20020104476"   "6100152"   "6384469"   "6699741").PN. OR ("6919253").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/16 13:11
S37	23681	((257/552-562,E29.033) or (438/202-238,234-239,309-377) or (257/E27.015,E27.017,E27.03-E27.032,E27.109,E29.194-E29.225)). CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/16 14:59
S38	42	S37 and (base with ((single mono) near5 crystal\$5) and (poly near5 crystal\$5)) and (emitter with ((single mono) near5 crystal\$5) and (poly near5 crystal\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 14:28
S39	26	("3579814"   "4004954"   "4056413"   "4236294"   "4324814"   "4462847"   "4483726"   "4499657"   "4504332"   "4507158"   "4522662"   "4545114"   "4578142"   "4640721"   "4729965"   "4746629"   "4818713").PN. OR ("5059544").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/16 14:17

## EAST Search History

S40	188	S37 and ((single mono) near5 crystal\$5) and (poly near5 crystal\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 14:47
S41	146	S40 not S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 14:28
S42	1508	S37 and (BICMOS bipolar near3 complementary near3 oxide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 14:48
S43	2136	(257/552-562,E29.033).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/16 14:59
S44	1828	S43 and (((@ad<"20040921") or (@rlad<"20040921"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 17:04
S47	486	S44 and ((silicon Si) with (oxide))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/16 15:02
S48	1342	S44 not S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:12
S49	5413	((438/202-208,234-239) or (257/E21.382-E21.385,E21.695-E21.696)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/19 19:27

## EAST Search History

S50	23681	((257/552-562,E29.033) or (438/202-238,234-239,309-377) or (257/E27.015,E27.017,E27.03-E27.032,E27.109,E29.194-E29.225)). CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/17 17:12
S51	2136	(257/552-562,E29.033).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/17 17:12
S52	24122	S50 or S51 or S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:13
S53	7772	S52 and (bipolar heterobipolar heter\$2bipolar) with transistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:14
S54	140	S53 and ((mono single) with crystal\$5 and (poly) with crystal\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:26
S55	4032	S52 and (etch\$3 pattern\$3) with (oxide silicon near3 oxide) and (polysilicon with oxide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:27
S56	1802	S55 and bipolar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:28
S57	1771	S56 and ((@ad<"20040921") or (@rlad<"20040921"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 18:13

## EAST Search History

S58	69	S57 and (dummy sacrifici\$3) with (gate emitter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:58
S59	359	S52 and (dummy sacrifici\$3) with (gate emitter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 17:59
S60	290	S59 not S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 18:03
S61	95	S60 and (bipolar bi\$1polar)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 18:03
S62	1702	S57 not (S59 S60)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 20:34
S63	1844	(257/E21.382-E21.385,E21.695-E21.696).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/18 13:45
S64	5417	((438/202-208,234-239) or (257/E21.382-E21.385,E21.695-E21.696)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/19 19:28
S65	1345	S64 and (trench groove aperture recess) with oxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 19:28

## EAST Search History

S66	1173	S65 and oxide with (silicon Si)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 20:14
S67	14	((("4808548") or ("4985744") or ("6399993") or ("20020052074") or ("20020076874") or ("20030064555") or ("20030201517"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/19 20:15